

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	66
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		°	°	°
DWR ID	DWR_RD0544_01_s_2012_66				
Action/Comments					
Inspector Comments: The LMA has a good working knowledge of flood response. LMA has not been involved in flood training for several years.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	71
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		°	°	°
DWR ID	DWR_RD0544_01_s_2013_71				
Action/Comments					
Inspector Comments: The LMA has a copy of O&M manual on file in the office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	72
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		°	°	°
DWR ID	DWR_RD0544_01_s_2013_72				
Action/Comments					
Inspector Comments: The LMA maintains an adequate supply of floodfight material.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	92
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.870285 °	37.870285 °	
			-121.329822 °	-121.329822 °	
DWR ID	DWR_RD0544_01_f_2014_92				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.06	Rating **	M	Issue No.	4
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.869606 °	37.868163 °	
			-121.329571 °	-121.328132 °	
DWR ID	DWR_RD0544_01_s_2012_4				
Action/Comments					
Equipment Inspector Comments: Farm equipment and supplies stored at landward toe.					

Photo 1 of 5 : FA_2015_RD0544_108_4_20151023_00091.jpg



Looking west at equipment stored at landward toe fall 2015

Photo 2 of 5 : FA_2015_RD0544_108_4_20151023_00092.jpg



Looking southwest at equipment stored at landward toe fall 2015.

LM Start	0.06	Rating **	M	Issue No.	4 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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LM Start	0.06	Rating **	M	Issue No.	4 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.869606 °	37.868163 °	
			-121.329571 °	-121.328132 °	
DWR ID	DWR_RD0544_01_s_2012_4				
Action/Comments					
Equipment Inspector Comments: Farm equipment and supplies stored at landward toe.					

Photo 3 of 5 : FA_2015_RD0544_108_4_20150914_00004.jpg



Looking south at farm equipment at landward toe. (Spring 2015)

LM Start	0.06	Rating **	M	Issue No.	4 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS

Photo 4 of 5 : FA_2015_RD0544_108_4_20150914_00005.jpg



Looking north at equipment along landside toe.

LM Start	0.06	Rating **	M	Issue No.	4 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : FA_2015_RD0544_108_4_20150914_00006.jpg



Looking south at equipment along landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.06	Rating **	U	Issue No.	118
LM End	0.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.869570 °	37.869570 °
				-121.329556 °	-121.329556 °
DWR ID	DWR_RD0544_01_f_2015_118				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Finger erosion noted on landward slope.					

Photo 1 of 1 : FA_2015_RD0544_108_118_20151023_00093.jpg



Looking west at landside erosion for shoulder to middle of levee slope.

LM Start	0.41	Rating **	C	Issue No.	25
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.864820 °	37.864820 °
				-121.327200 °	-121.327200 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: Repaired site. No significant change observed. 08/13/2013: Repaired site. No new erosion found at the site. 08/07/2012: The site has been visited by boat survey. The site has been repaired with riprap protection. Rotten tree roots and minor erosion are visible immediately upstream of the site 08/23/2011: No significant change observed on site. 09/07/2010: No significant change observed on site. There are minor pockets of erosion lining the lower slope and undermining of the toe. There are annual grasses and emergent vegetation at the lower slope. Burrow holes were observed along the slope and persist throughout the 200-foot long site. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. 09/30/2009: No major change observed since last visit; despite dense vegetation, the bank continues to erode and slough; the levee toe is being undermined; note the tree on site; the site was previously rated "U". 10/21/2008: Undermining of the levee toe; rodent holes in several location; trees with roots partially exposed; sloughing on slope. [2015 Site ID:RD0544U01RM47.12]					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.48	Rating **	A/W	Issue No.	3 (cont)
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.864578 °	37.863753 °
				-121.326210 °	-121.322835 °
DWR ID	DWR_RD0544_01_s_2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Issue has been corrected, but should be monitored.					

Photo 2 of 2 : FA_2015_RD0544_108_3_20150914_00003.jpg



Looking south at overgrown on landward and waterward slopes.

LM Start	0.55	Rating **	A/W	Issue No.	61
LM End	0.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.864359 °	37.864011 °
				-121.324939 °	-121.323562 °
DWR ID	DWR_RD0544_01_f_2013_61				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

No Photos

LM Start	0.73	Rating **	M	Issue No.	12
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.863380 °	37.863380 °
				-121.321897 °	-121.321897 °
DWR ID	DWR_RD0544_01_s_2012_12				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	73
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			°	°
DWR ID	DWR_RD0544_01_f_2013_73				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.81	Rating **	U	Issue No.	93
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.862694 °	37.862694 °
				-121.320887 °	-121.320887 °
DWR ID	DWR_RD0544_01_f_2014_93				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0544_108_93_20151023_00096.jpg



Looking west at untrimmed trees on landward slope and toe fall 2015.

LM Start	1.12	Rating **	M	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.859423 °	37.859423 °
				-121.318328 °	-121.318328 °
DWR ID	DWR_RD0544_01_s_2012_39				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Untrimmed trees on landward slope.					

Photo 1 of 2 : FA_2015_RD0544_108_39_20151023_00097.jpg



Looking southwest at untrimmed tree at landward slope and toe fall

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.12	Rating **	M	Issue No.	39 (cont)
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.859423 °	37.859423 °	
			-121.318328 °	-121.318328 °	
DWR ID	DWR_RD0544_01_s_2012_39				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Untrimmed trees on landward slope.					

Photo 2 of 2 : FA_2015_RD0544_108_39_20150914_00042.jpg



Looking southwest at untrimmed tree at landward slope and toe spring 2015

LM Start	1.13	Rating **	M	Issue No.	15
LM End	1.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.859287 °	37.857322 °	
			-121.318333 °	-121.319985 °	
DWR ID	DWR_RD0544_01_s_2012_15				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_108_15_20150914_00011.jpg



Looking southeast at dense vegetation on landward toe.

LM Start	1.29	Rating **	M	Issue No.	89
LM End	1.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.857321 °	37.857321 °	
			-121.319943 °	-121.319943 °	
DWR ID	DWR_RD0544_01_s_2014_89				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.33	Rating **	A/W	Issue No.	19
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.857042 °	37.855792 °	
			-121.320480 °	-121.321212 °	
DWR ID	DWR_RD0544_01_s_2012_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.42	Rating **	U	Issue No.	87
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.855948 °	37.855043 °	
			-121.321250 °	-121.321122 °	
DWR ID	DWR_RD0544_01_s_2015_87				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0544_108_87_20151023_00098.jpg



Looking west at untrimmed tree at landward toe fall 2015.

LM Start	1.43	Rating **	N	Issue No.	13
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.855778 °	37.855778 °	
			-121.321206 °	-121.321206 °	
DWR ID	DWR_RD0544_01_s_2012_13				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.44	Rating **	N	Issue No.	14
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855583 °	37.855583 °
				-121.321177 °	-121.321177 °
DWR ID	DWR_RD0544_01_s_2012_14				
Action/Comments					
Tree stumps.					

No Photos

LM Start	1.48	Rating **	A/W	Issue No.	94
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.855097 °	37.854722 °
				-121.321136 °	-121.321072 °
DWR ID	DWR_RD0544_01_f_2014_94				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Issue has been corrected, but should be monitored.					

Photo 1 of 1 : FA_2015_RD0544_108_94_20150914_00067.jpg



Looking north at vegetation on waterward shoulder and slope.

LM Start	1.48	Rating **	A/W	Issue No.	42
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.855087 °	37.854187 °
				-121.321127 °	-121.321055 °
DWR ID	DWR_RD0544_01_s_2012_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Issue has been corrected, but should be monitored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.50	Rating **	U	Issue No.	119
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.854844 °	37.854564 °
				-121.321090 °	-121.321031 °
DWR ID	DWR_RD0544_01_f_2015_119				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Damaged levee slope due to fishermen using slope as a ramp.					

Photo 1 of 3 : FA_2015_RD0544_108_119_20151023_00099.jpg



Looking southeast at damaged waterward slope fall 2015.

LM Start	1.50	Rating **	U	Issue No.	119 (cont)
LM End	1.51	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2015_RD0544_108_119_20151023_00100.jpg



Looking east at damaged waterward slope fall 2015.

LM Start	1.50	Rating **	U	Issue No.	119 (cont)
LM End	1.51	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2015_RD0544_108_119_20151023_00101.jpg



Looking southeast at damaged waterward slope fall 2015

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.57	Rating **	A/W	Issue No.	43
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.854108 °	37.854837 °	
			-121.321582 °	-121.323280 °	
DWR ID	DWR_RD0544_01_s_2012_43				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Issue has been corrected, but should be monitored.					

No Photos

LM Start	1.59	Rating **	M	Issue No.	95
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.854299 °	37.854299 °	
			-121.321865 °	-121.321865 °	
DWR ID	DWR_RD0544_01_f_2014_95				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.64	Rating **	U	Issue No.	96
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.854681 °	37.854681 °	
			-121.322493 °	-121.322493 °	
DWR ID	DWR_RD0544_01_f_2014_96				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA_2015_RD0544_108_96_20151023_00102.jpg



Looking at untrimmed tree on landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.72	Rating **	A/W	Issue No.	55
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.854530 °	37.852850 °	
			-121.323870 °	-121.324058 °	
DWR ID	DWR_RD0544_01_s_2012_55				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.78	Rating **	M	Issue No.	88
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.853770 °	37.853770 °	
			-121.324293 °	-121.324293 °	
DWR ID	DWR_RD0544_01_s_2015_88				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.80	Rating **	A/W	Issue No.	20
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.853445 °	37.853445 °	
			-121.324227 °	-121.324227 °	
DWR ID	DWR_RD0544_01_s_2012_20				
Action/Comments					
Prunings					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.01	Rating **	A/W	Issue No.	90
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.850825 °	37.850825 °	
			-121.322475 °	-121.322475 °	
DWR ID	DWR_RD0544_01_s_2014_90				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent hole on levee crown.					

Photo 1 of 2 : FA_2015_RD0544_108_90_20150914_00063.jpg



Looking at rodent hole on levee crown.

LM Start	2.01	Rating **	A/W	Issue No.	90 (cont)
LM End	2.01	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : FA_2015_RD0544_108_90_20150914_00064.jpg



Looking at grouted rodent hole on levee crown.

LM Start	2.02	Rating **	C	Issue No.	36
LM End	2.02	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.850534 °	37.850534 °	
			-121.322285 °	-121.322285 °	
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: The erosion was repaired. 08/13/2013: No significant change observed. 08/07/2012: The erosion is right at the inside of a river bend. Dense vegetation is visible at the site. [2015 Site ID:RD0544U01RM48.81]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.02	Rating **	A/W	Issue No.	97
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.850632 °	37.848206 °	
			-121.322501 °	-121.324869 °	
DWR ID	DWR_RD0544_01_f_2014_97				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.26	Rating **	U	Issue No.	23
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.848155 °	37.848155 °	
			-121.324897 °	-121.324897 °	
DWR ID	DWR_RD0544_01_s_2012_23				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Caving/erosion around irrigation pipe on landside slope.					

Photo 1 of 3 : FA_2015_RD0544_108_23_20150914_00027.jpg



Looking south at erosion around irrigation pipe on landside slope. (Fall 2014)

LM Start	2.26	Rating **	U	Issue No.	23 (cont)
LM End	2.26	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2015_RD0544_108_23_20150914_00028.jpg



Looking north at erosion under irrigation pipe on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.26	Rating **	U	Issue No.	23 (cont)
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.848155 °	37.848155 °
				-121.324897 °	-121.324897 °
DWR ID	DWR_RD0544_01_s_2012_23				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Caving/erosion around irrigation pipe on landside slope.					

Photo 3 of 3 : FA_2015_RD0544_108_23_20150914_00029.jpg



Looking east at erosion under irrigation pipe on landside slope.

LM Start	2.26	Rating **	M	Issue No.	98
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.848021 °	37.847343 °
				-121.324839 °	-121.324672 °
DWR ID	DWR_RD0544_01_f_2014_98				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	2.27	Rating **	M	Issue No.	8
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.847973 °	37.847105 °
				-121.324820 °	-121.324577 °
DWR ID	DWR_RD0544_01_s_2012_8				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	34
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.847292 °	37.846743 °	
			-121.324662 °	-121.324336 °	
DWR ID	DWR_RD0544_01_s_2012_34				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent hole within this reach.					

Photo 1 of 2 : FA_2015_RD0544_108_34_20150914_00038.jpg



Looking south at several rodent holes on landward shoulder and slope.

LM Start	2.32	Rating **	M	Issue No.	34 (cont)
LM End	2.36	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0544_108_34_20150914_00039.jpg



Looking at rodent hole on levee crown.

LM Start	2.33	Rating **	C	Issue No.	7
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.847108 °	37.847108 °	
			-121.324585 °	-121.324585 °	
DWR ID	DWR_RD0544_01_s_2012_7				
Action/Comments					
Garbage Inspector Comments: Garbage and prunings at landside toe. Issue has been corrected.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.36	Rating **	A/W	Issue No.	74
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.846687 °	37.846687 °	
			-121.324278 °	-121.324278 °	
DWR ID	DWR_RD0544_01_f_2013_74				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.37	Rating **	A/W	Issue No.	65
LM End	2.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.846660 °	37.846660 °	
			-121.324240 °	-121.324240 °	
DWR ID	DWR_RD0544_01_s_2013_65				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	2.46	Rating **	M	Issue No.	99
LM End	3.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.845640 °	37.837391 °	
			-121.322975 °	-121.317456 °	
DWR ID	DWR_RD0544_01_f_2014_99				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_108_99_20150914_00068.jpg



Looking south at dense vegetation on waterward shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	60
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.844337 °	37.844337 °	
			-121.321853 °	-121.321853 °	
DWR ID	DWR_RD0544_01_s_2012_60				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Finger erosion on landward slope.					

Photo 1 of 2 : FA_2015_RD0544_108_60_20150914_00049.jpg



Looking north at slope damage on landside slope.

LM Start	2.57	Rating **	M	Issue No.	60 (cont)
LM End	2.57	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0544_108_60_20150914_00050.jpg



Looking south at slope damage on landside slope.

LM Start	2.65	Rating **	M	Issue No.	100
LM End	2.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.843262 °	37.840656 °	
			-121.321666 °	-121.318590 °	
DWR ID	DWR_RD0544_01_f_2014_100				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_108_100_20150914_00069.jpg



Looking south at vegetation on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.84	Rating **	N	Issue No.	22
LM End	2.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.841075 °	37.841075 °	
			-121.320205 °	-121.320205 °	
DWR ID	DWR_RD0544_01_s_2012_22				
Action/Comments					
Tree stumps.					

No Photos

LM Start	2.89	Rating **	U	Issue No.	106
LM End	3.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.840952 °	37.837588 °	
			-121.319327 °	-121.317540 °	
DWR ID	DWR_RD0544_01_s_2015_106				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense willows and vegetation waterward slope.					

Photo 1 of 1 : FA_2015_RD0544_108_106_20151023_00106.jpg



Looking southeast at dense willows (veg) on waterward slope and toe fall 2015.

LM Start	2.95	Rating **	M	Issue No.	107
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.840560 °	37.840467 °	
			-121.318463 °	-121.318367 °	
DWR ID	DWR_RD0544_01_s_2015_107				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Several depressions on landward slope within this reach.					

Photo 1 of 2 : FA_2015_RD0544_108_107_20150914_00072.jpg



Looking south at depression on landward slope.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	107 (cont)
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.840560 °	37.840467 °
				-121.318463 °	-121.318367 °
DWR ID	DWR_RD0544_01_s_2015_107				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Several depressions on landward slope within this reach.					

Photo 2 of 2 : FA_2015_RD0544_108_107_20150914_00073.jpg



Looking west at depression on landward shoulder.

LM Start	2.95	Rating **	U	Issue No.	38
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.840697 °	37.840697 °
				-121.318252 °	-121.318252 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site. 08/07/2012: The erosion is immediately upstream of a river bend. Dense vegetation is visible at the erosion site. [2015 Site ID:RD0544U01RM49.67]					

Photo 1 of 2 : SJR2015_RD0544U01RM49.67_2.jpg



Close view of the site.

LM Start	2.95	Rating **	U	Issue No.	38 (cont)
LM End	2.95	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0544U01RM49.67_3.jpg



Front view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.95	Rating **	U	Issue No.	47
LM End	3.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.840485 °	37.837225 °	
			-121.318390 °	-121.317408 °	
DWR ID	DWR_RD0544_01_s_2012_47				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_108_47_20151023_00107.jpg



Looking south at dense veg on landward slope fall 2015.

LM Start	3.08	Rating **	M	Issue No.	108
LM End	3.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.838733 °	37.838733 °	
			-121.317918 °	-121.317918 °	
DWR ID	DWR_RD0544_01_s_2015_108				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.14	Rating **	M	Issue No.	76
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.837929 °	37.837929 °	
			-121.317663 °	-121.317663 °	
DWR ID	DWR_RD0544_01_f_2013_76				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damaged extends from levee slope to shoulder.					

Photo 1 of 1 : FA_2015_RD0544_108_76_20150914_00057.jpg



Looking east at slope damage on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	3.76	Rating **	M	Issue No.	109
LM End	3.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.830250 °	37.828013 °	
			-121.312323 °	-121.311467 °	
DWR ID	DWR_RD0544_01_s_2015_109				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.90	Rating **	M	Issue No.	102
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.828372 °	37.822028 °	
			-121.311607 °	-121.319429 °	
DWR ID	DWR_RD0544_01_f_2014_102				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.94	Rating **	C	Issue No.	63
LM End	4.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.827800 °	37.824953 °	
			-121.311332 °	-121.314988 °	
DWR ID	DWR_RD0544_01_s_2012_63				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: Issue has been corrected.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	3.97	Rating **	M	Issue No.	24
LM End	3.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.827360 °	37.827360 °	
			-121.311067 °	-121.311067 °	
DWR ID	DWR_RD0544_01_s_2015_24				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.03	Rating **	M	Issue No.	11
LM End	4.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.826621 °	37.826315 °	
			-121.310820 °	-121.311024 °	
DWR ID	DWR_RD0544_01_s_2012_11				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.09	Rating **	M	Issue No.	110
LM End	4.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.825852 °	37.825852 °	
			-121.311542 °	-121.311542 °	
DWR ID	DWR_RD0544_01_s_2015_110				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.14	Rating **	M	Issue No.	52
LM End	4.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.825762 °	37.825005 °
				-121.312393 °	-121.314982 °
DWR ID	DWR_RD0544_01_s_2012_52				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.23	Rating **	M	Issue No.	46
LM End	4.24	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.825248 °	37.825248 °
				-121.313856 °	-121.313856 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The erosion has been caused by irrigation pipe. [2015 Site ID:RD0544U01RM51.04]					



Front view of the site.

LM Start	4.23	Rating **	M	Issue No.	46 (cont)
LM End	4.24	Issue Type +	Ma	Location *	WS



Close view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.30	Rating **	M	Issue No.	59
LM End	4.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.824943 °	37.824943 °	
			-121.315008 °	-121.315008 °	
DWR ID	DWR_RD0544_01_s_2012_59				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.34	Rating **	C	Issue No.	53
LM End	4.34	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.824360 °	37.824360 °	
			-121.314360 °	-121.314360 °	
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: The erosion has been repaired. 6/19/2014: No significant change observed. 08/13/2013: This erosion has been caused by instability of the levee . Larger trees exist downstream of the erosion site. [2015 Site ID:RD0544U01RM51.09]					

No Photos

LM Start	4.40	Rating **	A/W	Issue No.	54
LM End	6.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.823617 °	37.808766 °	
			-121.315550 °	-121.328198 °	
DWR ID	DWR_RD0544_01_s_2012_54				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Issue has been corrected, but should be monitored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.48	Rating **	M	Issue No.	103
LM End	4.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.823027 °	37.823027 °	
			-121.316737 °	-121.316737 °	
DWR ID	DWR_RD0544_01_f_2014_103				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.49	Rating **	U	Issue No.	41
LM End	4.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.822934 °	37.822934 °	
			-121.316870 °	-121.316870 °	
DWR ID	DWR_RD0544_01_s_2012_41				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					



Looking south at elderberries on landside slope and toe.

LM Start	4.64	Rating **	U	Issue No.	104
LM End	4.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.822033 °	37.821826 °	
			-121.319432 °	-121.320071 °	
DWR ID	DWR_RD0544_01_f_2014_104				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Dense untrimmed trees on landward slope.					



Looking southwest at dense untrimmed trees on landward slope fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.69	Rating **	U	Issue No.	105
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.821775 °	37.821775 °	
			-121.320203 °	-121.320203 °	
DWR ID	DWR_RD0544_01_f_2014_105				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Tree has overgrown onto levee crown.					

Photo 1 of 1 : FA_2015_RD0544_108_105_20150914_00071.jpg



Looking south at overgrown tree on landward shoulder.

LM Start	4.69	Rating **	M	Issue No.	111
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.821783 °	37.821783 °	
			-121.320237 °	-121.320237 °	
DWR ID	DWR_RD0544_01_s_2015_111				
Action/Comments					
Prunings Inspector Comments: Prunings on landward shoulder.					

No Photos

LM Start	4.71	Rating **	M	Issue No.	28
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.821626 °	37.821626 °	
			-121.320471 °	-121.320471 °	
DWR ID	DWR_RD0544_01_s_2012_28				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : FA_2015_RD0544_108_28_20150914_00031.jpg



Looking northeast at erosion around irrigation pipe on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.71	Rating **	M	Issue No.	28 (cont)
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.821626 °	37.821626 °	
			-121.320471 °	-121.320471 °	
DWR ID	DWR_RD0544_01_s_2012_28				
Action/Comments					
Repair slope instability.					

Photo 2 of 2 : FA_2015_RD0544_108_28_20150914_00032.jpg



Looking north at erosion around irrigation pipe on landside

LM Start	4.71	Rating **	A/W	Issue No.	29
LM End	4.71	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.821626 °	37.821626 °	
			-121.320471 °	-121.320471 °	
DWR ID	DWR_RD0544_01_s_2012_29				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has employed a rodent control program and grouted holes.					

No Photos

LM Start	4.71	Rating **	M	Issue No.	26
LM End	4.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.821592 °	37.821253 °	
			-121.320617 °	-121.320927 °	
DWR ID	DWR_RD0544_01_s_2012_26				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.77	Rating **	U	Issue No.	112
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.820828 °	37.820828 °
				-121.321193 °	-121.321193 °
DWR ID	DWR_RD0544_01_s_2015_112				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD0544_108_112_20150914_00074.jpg



Looking southwest at dense trees on landward slope and toe.

LM Start	4.77	Rating **	U	Issue No.	113
LM End	4.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.820828 °	37.820828 °
				-121.321193 °	-121.321193 °
DWR ID	DWR_RD0544_01_s_2015_113				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Large hole, possibly a rodent hole, on waterward slope.					

Photo 1 of 1 : FA_2015_RD0544_108_113_20150914_00075.jpg



Looking north at large hole on waterward slope.

LM Start	4.81	Rating **	A/W	Issue No.	30
LM End	4.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.820227 °	37.820227 °
				-121.321115 °	-121.321115 °
DWR ID	DWR_RD0544_01_s_2012_30				
Action/Comments					
Prunings Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.83	Rating **	M	Issue No.	31
LM End	6.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.820081 °	37.808766 °	
			-121.321043 °	-121.328198 °	
DWR ID	DWR_RD0544_01_s_2012_31				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.86	Rating **	M	Issue No.	114
LM End	4.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.819642 °	37.819642 °	
			-121.320777 °	-121.320777 °	
DWR ID	DWR_RD0544_01_s_2015_114				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landward slope.					

No Photos

LM Start	4.89	Rating **	A/W	Issue No.	32
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.819249 °	37.819249 °	
			-121.320460 °	-121.320460 °	
DWR ID	DWR_RD0544_01_s_2012_32				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Issue has been corrected, but should be monitored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	4.95	Rating **	A/W	Issue No.	33
LM End	5.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.818718 °	37.814662 °	
			-121.319508 °	-121.320302 °	
DWR ID	DWR_RD0544_01_s_2012_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation has been sprayed, and it should be monitored.					

Photo 1 of 2 : FA_2015_RD0544_108_33_20151023_00115.jpg



Looking southwest at cleared landward slope and berm fall 2015.

LM Start	4.95	Rating **	A/W	Issue No.	33 (cont)
LM End	5.26	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0544_108_33_20150914_00033.jpg



Looking southwest at dense vegetation at landward slope and toe.(Spring 2015)

LM Start	5.00	Rating **	M	Issue No.	17
LM End	5.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.818152 °	37.818152 °	
			-121.319095 °	-121.319095 °	
DWR ID	DWR_RD0544_01_s_2012_17				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	5.34	Rating **	M	Issue No.	35
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.813659 °	37.813659 °	
			-121.319614 °	-121.319614 °	
DWR ID	DWR_RD0544_01_s_2012_35				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: LMA corrected site, but some vegetation still exists.					

Photo 1 of 1 : FA_2015_RD0544_108_35_20150914_00040.jpg



Looking south at bamboo on landward slope and toe.

LM Start	5.49	Rating **	U	Issue No.	18
LM End	5.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.812033 °	37.811687 °	
			-121.319737 °	-121.320677 °	
DWR ID	DWR_RD0544_01_s_2012_18				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry exists on the slope of the levee.					

Photo 1 of 2 : FA_2015_RD0544_108_18_20150914_00024.jpg



Looking south at dense vegetation on landward slope and toe. (Spring 2015)

LM Start	5.49	Rating **	U	Issue No.	18 (cont)
LM End	5.55	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0544_108_18_20150914_00025.jpg



Looking south at elderberries on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	5.60	Rating **	U	Issue No.	121
LM End	5.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.811234 °	37.811234 °
				-121.321412 °	-121.321412 °
DWR ID	DWR_RD0544_01_f_2015_121				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Someone digging/excavating on waterward berm. Excavation in 3ft wide and eighteen inches deep and ten feet long.					

Photo 1 of 4 : FA_2015_RD0544_108_121_20151023_00109.jpg



Looking west at excavation on waterward berm.

LM Start	5.60	Rating **	U	Issue No.	121 (cont)
LM End	5.60	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2015_RD0544_108_121_20151023_00110.jpg



Looking east at excavation on waterward berm.

LM Start	5.60	Rating **	U	Issue No.	121 (cont)
LM End	5.60	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2015_RD0544_108_121_20151023_00111.jpg



Looking northeast at excavation on waterward berm

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	5.60	Rating **	U	Issue No.	121 (cont)
LM End	5.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.811234 °	37.811234 °
				-121.321412 °	-121.321412 °
DWR ID	DWR_RD0544_01_f_2015_121				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Someone digging/excavating on waterward berm. Excavation in 3ft wide and eighteen inches deep and ten feet long.					

Photo 4 of 4 : FA_2015_RD0544_108_121_20151023_00112.jpg



Looking southeast at excavation on waterward berm.

LM Start	5.64	Rating **	N	Issue No.	40
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811199 °	37.811199 °
				-121.322176 °	-121.322176 °
DWR ID	DWR_RD0544_01_s_2012_40				
Action/Comments					
Tree stumps.					

No Photos

LM Start	5.72	Rating **	M	Issue No.	115
LM End	5.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.811225 °	37.811225 °
				-121.323575 °	-121.323575 °
DWR ID	DWR_RD0544_01_s_2015_115				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner excavated several steps into landward and waterward slopes					

Photo 1 of 3 : FA_2015_RD0544_108_115_20150914_00076.jpg



Looking west at slope damage on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	5.72	Rating **	M	Issue No.	115 (cont)
LM End	5.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.811225 °	37.811225 °
				-121.323575 °	-121.323575 °
DWR ID	DWR_RD0544_01_s_2015_115				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner excavated several steps into landward and waterward slopes					

Photo 2 of 3 : FA_2015_RD0544_108_115_20150914_00077.jpg



Looking east at slope damage on waterward slope.

LM Start	5.72	Rating **	M	Issue No.	115 (cont)
LM End	5.72	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2015_RD0544_108_115_20150914_00078.jpg



Looking northwest at slope damage on landward toe.

LM Start	5.86	Rating **	M	Issue No.	116
LM End	6.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810685 °	37.808880 °
				-121.325827 °	-121.328055 °
DWR ID	DWR_RD0544_01_s_2015_116				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/22/2015 10/22/2015	Richard Willoughby

LM Start	5.95	Rating **	C	Issue No.	117
LM End	5.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.809613 °	37.809613 °
				-121.326758 °	-121.326758 °
DWR ID	DWR_RD0544_01_s_2015_117				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Tree has been cut down and removed.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.03	Rating **	U	Issue No.	3
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.808603 °	37.808213 °	
			-121.328719 °	-121.331241 °	
DWR ID	DWR_RD0544_02_s_2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : FA_2015_RD0544_109_3_20151026_00063.jpg



Looking south at dense veg on landward slope and toe fall 2015.

LM Start	0.03	Rating **	U	Issue No.	3 (cont)
LM End	0.17	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0544_109_3_20150914_00002.jpg



Looking south at dense vegetation at landward toe spring 2014.

LM Start	0.27	Rating **	A/W	Issue No.	2
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.808687 °	37.810253 °	
			-121.332964 °	-121.334930 °	
DWR ID	DWR_RD0544_02_s_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	4
LM End	0.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.809788 °	37.809788 °	
			-121.334727 °	-121.334727 °	
DWR ID	DWR_RD0544_02_s_2012_4				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	0.43	Rating **	M	Issue No.	1
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.810250 °	37.819452 °	
			-121.334933 °	-121.333755 °	
DWR ID	DWR_RD0544_02_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_109_1_20150914_00001.jpg



Looking southwest at dense vegetation at landward toe.

LM Start	0.52	Rating **	N	Issue No.	11
LM End	0.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.811592 °	37.811592 °	
			-121.335018 °	-121.335018 °	
DWR ID	DWR_RD0544_02_s_2012_11				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.64	Rating **	U	Issue No.	46
LM End	0.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.813197 °	37.813197 °
				-121.335055 °	-121.335055 °
DWR ID	DWR_RD0544_02_s_2015_46				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Depression greater than one inch deep and greater than three inches on landward shoulder					

Photo 1 of 1 : FA_2015_RD0544_109_46_20150914_00044.jpg



Looking at depression on landward shoulder.

LM Start	0.72	Rating **	M	Issue No.	5
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814333 °	37.814333 °
				-121.334592 °	-121.334592 °
DWR ID	DWR_RD0544_02_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	0.78	Rating **	U	Issue No.	8
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815094 °	37.815094 °
				-121.333927 °	-121.333927 °
DWR ID	DWR_RD0544_02_s_2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

Photo 1 of 8 : FA_2015_RD0544_109_8_20150914_00008.jpg



Looking at top of siphon on waterside shoulder with 3' of caving around pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems		GPS Latitude/Longitude		
			Start	End	
Item	Erosion Areas		37.815094 °	37.815094 °	
			-121.333927 °	-121.333927 °	
DWR ID	DWR_RD0544_02_s_2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 2 of 8 : FA_2015_RD0544_109_8_20150914_00009.jpg



Looking at caving around 10" siphon pipe on waterside shoulder.

Photo 3 of 8 : FA_2015_RD0544_109_8_20150914_00010.jpg



Looking south at depression greater than 6" on waterside shoulder.

Photo 4 of 8 : FA_2015_RD0544_109_8_20150914_00011.jpg



Looking east at caving around siphon on waterside shoulder. (Spring 2012)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems		GPS Latitude/Longitude		
			Start	End	
Item	Erosion Areas		37.815094 °	37.815094 °	
			-121.333927 °	-121.333927 °	
DWR ID	DWR_RD0544_02_s_2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

Photo 5 of 8 : FA_2015_RD0544_109_8_20150914_00012.jpg



Looking at top of siphon with a depression greater than 6" on waterside shoulder.

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 6 of 8 : FA_2015_RD0544_109_8_20150914_00013.jpg



Looking west at caving around siphon on waterside shoulder. (Spring 2012)

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 7 of 8 : FA_2015_RD0544_109_8_20150914_00014.jpg



Looking south at caving around siphon on waterside shoulder. (Spring 2012)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815094 °	37.815094 °
				-121.333927 °	-121.333927 °
DWR ID	DWR_RD0544_02_s_2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

Photo 8 of 8 : FA_2015_RD0544_109_8_20150914_00015.jpg



Looking south at depression greater than 6" around siphon on waterside shoulder.

LM Start	1.30	Rating **	U	Issue No.	49
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820767 °	37.821582 °
				-121.336611 °	-121.338102 °
DWR ID	DWR_RD0544_02_f_2014_49				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tobacco plants on waterward slope.					

Photo 1 of 2 : FA_2015_RD0544_109_49_20150914_00045.jpg



Looking southwest at dense vegetation on landward slope and toe.

LM Start	1.30	Rating **	U	Issue No.	49 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0544_109_49_20150914_00046.jpg



Looking south at several tobacco plants on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.38	Rating **	U	Issue No.	10 (cont)
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.821423 °	37.821423 °	
			-121.337878 °	-121.337878 °	
DWR ID	DWR_RD0544_02_s_2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense elderberry on landward slope and toe.					



Looking south at elderberries on landside slope and toe.

LM Start	1.42	Rating **	M	Issue No.	22
LM End	1.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.821697 °	37.821697 °	
			-121.338397 °	-121.338397 °	
DWR ID	DWR_RD0544_02_s_2012_22				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Damage caused by vehicle traffic.					



Looking northwest at slope damage caused by vehicle traffic.

LM Start	1.42	Rating **	M	Issue No.	22 (cont)
LM End	1.42	Issue Type +	Ma	Location *	LS



Looking northwest at slope damage caused by vehicle traffic (Fall 2014).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	28
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.821954 °	37.821954 °	
			-121.338715 °	-121.338715 °	
DWR ID	DWR_RD0544_02_s_2012_28				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.86	Rating **	U	Issue No.	38
LM End	1.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.817983 °	37.817983 °	
			-121.341682 °	-121.341682 °	
DWR ID	DWR_RD0544_02_s_2015_38				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion/Caving on waterward shoulder and slope 18" x 6" x 15'.					

Photo 1 of 2 : FA_2015_RD0544_109_38_20150914_00041.jpg



Looking southeast at erosion/caving on waterward slope.

LM Start	1.86	Rating **	U	Issue No.	38 (cont)
LM End	1.86	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD0544_109_38_20150914_00042.jpg



Looking east at erosion/caving on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.02	Rating **	A/W	Issue No.	39
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.818842 °	37.820193 °	
			-121.343520 °	-121.345525 °	
DWR ID	DWR_RD0544_02_s_2012_39				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.07	Rating **	M	Issue No.	13
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.819337 °	37.819460 °	
			-121.344275 °	-121.344492 °	
DWR ID	DWR_RD0544_02_s_2012_13				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2015_RD0544_109_13_20150914_00020.jpg



Looking northwest at elderberries on landside slope and toe.

LM Start	2.12	Rating **	U	Issue No.	59
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.819738 °	37.819738 °	
			-121.344922 °	-121.344922 °	
DWR ID	DWR_RD0544_02_s_2015_59				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Untrimmed trees on landward shoulder and slope.					

Photo 1 of 1 : FA_2015_RD0544_109_59_20151026_00065.jpg



Looking southwest at untrimmed trees on landward slope and toe fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.24	Rating **	M	Issue No.	33
LM End	2.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.821096 °	37.821945 °	
			-121.346418 °	-121.347897 °	
DWR ID	DWR_RD0544_02_s_2012_33				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.28	Rating **	U	Issue No.	61
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.821473 °	37.821473 °	
			-121.346860 °	-121.346860 °	
DWR ID	DWR_RD0544_02_s_2015_61				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Untrimmed tree on landward shoulder.					

Photo 1 of 1 : FA_2015_RD0544_109_61_20151026_00066.jpg



Looking west at untrimmed trees on landward slope fall 2015.

LM Start	2.29	Rating **	A/W	Issue No.	40
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.821628 °	37.821628 °	
			-121.346972 °	-121.346972 °	
DWR ID	DWR_RD0544_02_s_2012_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.31	Rating **	M	Issue No.	51
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.821757 °	37.821757 °	
			-121.347181 °	-121.347181 °	
DWR ID	DWR_RD0544_02_s_2014_51				
Action/Comments					
Pipe Inspector Comments: Landowner repaired pump and replaced pipe and left pump shaft and pipe on waterward slope.					

Photo 1 of 1 : FA_2015_RD0544_109_51_20150914_00048.jpg



Looking north at old pump shaft and pipe on waterward slope.

LM Start	2.31	Rating **	M	Issue No.	12
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.821763 °	37.821763 °	
			-121.347275 °	-121.347275 °	
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/20/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2015 Site ID:RD0544U02RM33.21]					

Photo 1 of 2 : SJR2015_RD0544U02RM33.21_2.jpg



Front view of the site.

LM Start	2.31	Rating **	M	Issue No.	12 (cont)
LM End	2.31	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015_RD0544U02RM33.21_4.jpg



Front view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	41
LM End	2.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.821840 °	37.821433 °	
			-121.347428 °	-121.348849 °	
DWR ID	DWR_RD0544_02_s_2012_41				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.44	Rating **	M	Issue No.	42
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.821037 °	37.819200 °	
			-121.349050 °	-121.359943 °	
DWR ID	DWR_RD0544_02_s_2012_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.61	Rating **	U	Issue No.	9
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.818861 °	37.818861 °	
			-121.350400 °	-121.350400 °	
DWR ID	DWR_RD0544_02_f_2015_9				
Action/Comments					
Inspector Comments: 06/25/2015: The site was discovered during the boat survey. Irrigation pipe leakage caused the soil to sink at the upper levee shoulder. The lower part of the levee is protected by riprap rocks. The irrigation pump was operating at the site. [2015 Site ID:RD0544U02RM33]					

Photo 1 of 3 : SJR2015_RD0544U02RM33.00_4.JPG



Front view of the erosion site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	9 (cont)
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.818861 °	37.818861 °
				-121.350400 °	-121.350400 °
DWR ID	DWR_RD0544_02_f_2015_9				
Action/Comments					
Inspector Comments: 06/25/2015: The site was discovered during the boat survey. Irrigation pipe leakage caused the soil to sink at the upper levee shoulder. The lower part of the levee is protected by riprap rocks. The irrigation pump was operating at the site. [2015 Site ID:RD0544U02RM33]					

Photo 2 of 3 : SJR2015_RD0544U02RM33.00_6.JPG



Close view of the erosion.

LM Start	2.61	Rating **	U	Issue No.	9 (cont)
LM End	2.61	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SJR2015_RD0544U02RM33.00_8.JPG



Close view of the erosion. Vegetation around the site is visible.

LM Start	2.67	Rating **	M	Issue No.	7
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.817760 °	37.817760 °
				-121.350850 °	-121.350850 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 10/11/2013: No significant change observed. 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2015 Site					

Photo 1 of 2 : SJR2015_RD0544U02RM32.91_2.jpg



Front view of pocket erosion. Note the vegetation and riprap at the site.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	7 (cont)
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.817760 °	37.817760 °
				-121.350850 °	-121.350850 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 10/11/2013: No significant change observed. 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2015 Site ID:RD0544U02RM32.91]					

Photo 2 of 2 : SJR2015_RD0544U02RM32.91_4.jpg



Close view of pocket erosion.

LM Start	2.69	Rating **	A/W	Issue No.	52
LM End	3.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817928 °	37.818824 °
				-121.351355 °	-121.359523 °
DWR ID	DWR_RD0544_02_f_2014_52				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_109_52_20150914_00049.jpg



Looking south at vegetation on levee crown.

LM Start	2.71	Rating **	U	Issue No.	43
LM End	3.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817747 °	37.817497 °
				-121.351578 °	-121.357490 °
DWR ID	DWR_RD0544_02_s_2012_43				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0544_109_43_20150914_00043.jpg



Looking south a dense vegetation on landward and waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	2.80	Rating **	U	Issue No.	53
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.817187 °	37.817187 °	
			-121.352964 °	-121.352964 °	
DWR ID	DWR_RD0544_02_f_2014_53				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA_2015_RD0544_109_53_20151026_00073.jpg



Looking southwest at untrimmed tree on landward slope fall 2015.

LM Start	3.20	Rating **	M	Issue No.	30
LM End	3.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.818748 °	37.819717 °	
			-121.359440 °	-121.362733 °	
DWR ID	DWR_RD0544_02_s_2013_30				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	3.22	Rating **	M	Issue No.	62
LM End	3.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.818985 °	37.818985 °	
			-121.359675 °	-121.359675 °	
DWR ID	DWR_RD0544_02_s_2015_62				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	3.29	Rating **	M	Issue No.	54
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.819635 °	37.819635 °	
			-121.360619 °	-121.360619 °	
DWR ID	DWR_RD0544_02_f_2014_54				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.48	Rating **	U	Issue No.	36
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.819576 °	37.819530 °	
			-121.364056 °	-121.364653 °	
DWR ID	DWR_RD0544_02_s_2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landside slope.					

Photo 1 of 3 : FA_2015_RD0544_109_36_20151026_00074.jpg



Looking northwest at cactus on landward slope and toe fall 2015

Photo 2 of 3 : FA_2015_RD0544_109_36_20150914_00039.jpg



Looking north at cactus on landside slope and toe spring 2015

LM Start	3.48	Rating **	U	Issue No.	36 (cont)
LM End	3.51	Issue Type +	Ma	Location *	LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

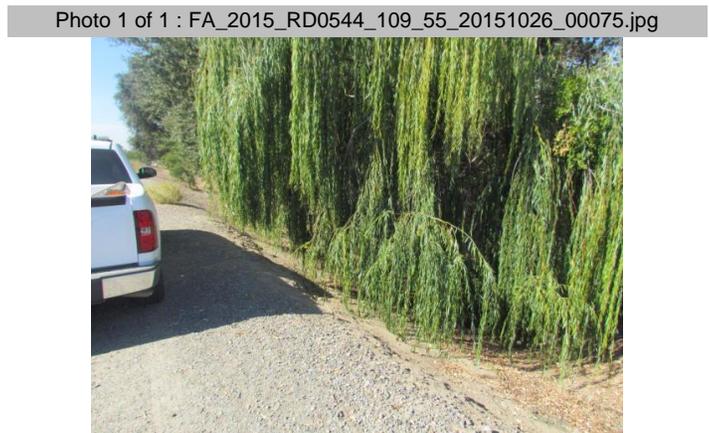
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	3.48	Rating **	U	Issue No.	36 (cont)
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819576 °	37.819530 °
				-121.364056 °	-121.364653 °
DWR ID	DWR_RD0544_02_s_2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landside slope.					



Looking southwest at overgrown cactus on landside slope spring 2015.

LM Start	3.49	Rating **	U	Issue No.	55
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819563 °	37.819542 °
				-121.364307 °	-121.364908 °
DWR ID	DWR_RD0544_02_f_2014_55				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					



Looking southwest at untrimmed trees on landward slope and toe fall 2015.

LM Start	3.55	Rating **	M	Issue No.	47
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819443 °	37.822442 °
				-121.365305 °	-121.374608 °
DWR ID	DWR_RD0544_02_s_2012_47				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	3.57	Rating **	M	Issue No.	19
LM End	3.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		°	37.821327 °	
			°	-121.369023 °	
DWR ID	DWR_RD0544_02_f_2013_19				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.58	Rating **	U	Issue No.	67
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		°	37.819419 °	
			°	-121.365854 °	
DWR ID	DWR_RD0544_02_f_2015_67				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Large rodent holes on landward slope.					

Photo 1 of 2 : FA_2015_RD0544_109_67_20151026_00078.jpg



Looking northeast at typical view of rodent holes on landward slope.

LM Start	3.58	Rating **	U	Issue No.	67 (cont)
LM End	3.58	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_RD0544_109_67_20151026_00077.jpg



Looking north at typical view of rodent holes on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	10/22/2015 10/22/2015	Richard Willoughby

LM Start	3.58	Rating **	A/W	Issue No.	48
LM End	4.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.819408 °	37.822442 °	
			-121.366005 °	-121.374607 °	
DWR ID	DWR_RD0544_02_s_2012_48				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.73	Rating **	A/W	Issue No.	63
LM End	3.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.820492 °	37.820492 °	
			-121.368093 °	-121.368093 °	
DWR ID	DWR_RD0544_02_s_2015_63				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control willows on waterward slope.					

No Photos

LM Start	4.05	Rating **	U	Issue No.	64
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.821620 °	37.821620 °	
			-121.373283 °	-121.373283 °	
DWR ID	DWR_RD0544_02_s_2015_64				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2015_RD0544_109_64_20150914_00052.jpg



Looking southwest at dense elderberry bush on landward slope and toe. (Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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